

HOWREY SIMON ARNOLD & WHITE, LLP



Serial No.: 09/737,234

12598.0128.NPUS00

Pag 2

I. CLAIM AMENDMENTS

1. (currently amended) A composite laminate interlayer for adhering a glass laminate consisting essentially of a sheet of polyethylene terephthalate between two layers of plasticized polyvinyl butyral adhesive layers, wherein both layers of plasticized polyvinyl butyral have a thickness in the range of 0.25 to 2 millimeters (10-80 mils) and wherein at least one of said polyvinyl butyral adhesive layers has a glass transition temperature greater than 35 °C and a tensile modulus at 25 °C of greater than about 10⁷ Pa.
2. (original) An interlayer according to claim 1 wherein said polyvinyl butyral adhesive layers are of different thickness.
3. (original) An interlayer according to claim 1 wherein said polyethylene terephthalate sheet has a thickness greater than 0.075 millimeters (3 mils).
4. (original) An interlayer according to claim 1 wherein said polyethylene terephthalate sheet has a thickness greater than 0.1 millimeters (4 mils).
5. (original) An interlayer according to claim 1 wherein said sheet of polyethylene terephthalate has a functional coating for reducing radiation transmission through said glass laminate.
6. (currently amended) A composite laminate interlayer for adhering glass laminates consisting essentially of a layer of polyethylene terephthalate between two layers of plasticized polyvinyl butyral adhesive layers, wherein the polyethylene terephthalate layer has a thickness in the range of 0.125 to 0.254 millimeters (5-10 mils); and each adhesive layer has a thickness in the range of 0.25 to 2 millimeter (10 - 80 mils) and wherein at least one layer of plasticized polyvinyl butyral has a glass transition temperature greater than 35 °C and a tensile modulus at 25 °C of greater than about 10⁷ Pa.
7. (cancelled)
8. (cancelled)
9. (currently amended) A glass laminate having improved stiffness comprising in order:
 - (a) a first glass sheet,
 - (b) a first layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeters (10 - 80 mils),

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HOWREY SIMON ARNOLD & WHITE, LLP



Serial No.: 09/737,234

12598.0128.NPUS00

Page 3

- (c) a sheet of polyethylene terephthalate greater than 0.075 millimeters (3 mils) thick,
(d) a second layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeter (10 - 80 mils), and
~~(e) a second glass sheet,~~
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- wherein said glass laminate exhibits a maximum flexural modulus of greater than about 350 Newtons/centimeter, and
wherein at least one of the layers of plasticized polyvinyl butyral has a glass transition temperature greater than 35 °C and a tensile modulus at 25 °C of greater than about 10⁷ Pa.
10. (original) A glass laminate according to claim 9 exhibiting a maximum load before failure of at least 3000 Newtons.
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11. (cancelled)
12. (original) A glass laminate according to claim 9 wherein at least one of the layers of plasticized polyvinyl butyral has a glass transition temperature greater than 40 °C.
13. (cancelled)
14. (original) A glass laminate according to claim 9 wherein said sheet of polyethylene terephthalate has a radiation blocking coating.
15. (currently amended) A glass laminate having improved stiffness consisting essentially of in order:
(a) a first glass layer,
(b) a first layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeters (10 - 80 mils),
(c) a layer of polyethylene terephthalate,
(d) a second layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeters (10 - 80 mils),
(e) a second glass layer,
wherein at least one layer of plasticized polyvinyl butyral adhesive has a glass transition temperature greater than 35 °C and a tensile modulus at 25 °C of greater than about 10⁷ Pa.
16. (original) A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 350 Newtons/centimeter.

HOWREY SIMON ARNOLD & WHITE, LLP



Serial No.: 09/737,234

12598.0128.NPUS00

Page 4

17. (original) A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 450 Newtons/centimeter.
18. (original) A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 550 Newtons/centimeter.
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19. (original) A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 650 Newtons/centimeter.
20. (original) A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 3000 Newtons.
21. (original) A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 4000 Newtons.
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22. (original) A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 5000 Newtons.
23. (original) A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 6000 Newtons.
24. (original) A glass laminate according to claim 15 wherein said sheet of polyethylene terephthalate has a radiation blocking coating.
25. (cancelled)
26. (cancelled)
27. (cancelled)
28. (cancelled)